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COORDINATION

By the Editor

Coordination has become an art and one of the factors which is going a long way toward winning the war. Coordination in this war means primarily the assembling of parts of tanks, airplanes, guns, jeeps, or what have you, to make a whole; the gathering together of men, ships and weapons at a given place at a given time, complete, ready to advance on the enemy, to take a strategic position, or perform some other part in military tactics; the planning of movements of men and materiel that they will be ready to make an attack—in the Pacific, in the Mediterranean, wherever and whenever it is decided to do so. Such coordination has been brought to a point of perfection amazing to our enemies, because they felt that, being a democracy, coordination was the one thing which we could not achieve within a few short months when it had taken them years to work out their own detailed plans.

They overlooked the fact that our large industrials had for years had some experience in the art of coordination. They had no idea that some of our great industries had men at the head of them, or near the head, who were capable of directing much larger projects than those in existence at that time. Our large industrial plants were adjusted for the manufacture of products for peace and pleasure; it meant only a little extra effort to step up the tempo to that of war. It was exceedingly fortunate in fact that we had at almost a moment's command, such large, well directed industries which could be converted so quickly and so readily to the manufacture of war equipment.

No one, least of all Hitler, thought for a moment that we could within two or three years turn out planes, tanks and all the rest of the numerous war weapons, at a monthly rate equal to that of the Axis, who had been working on the production of war equipment for no one is exactly sure how long. It *could* not have been done without all of us working together.

To be sure our early efforts were not as satisfactory

as we could have wished them to be—witness the phrase "too little and too late" used to prod us to larger effort when war production was first begun. We had to learn a great deal—it is the rapidity with which we learned it that astounded ourselves as well as our enemies.

I like the little story told in connection with the invasion of Sicily. The troops were given minute instructions as to what they were supposed to do at the moment of landing on the island and thereafter. The man who tells the story says that they were all nervous—fearful that the attack would not succeed. "And then," he says, "when we landed there was the little white house just where we had been told it would be." The men were so impressed with the fact that the attack had been planned in such minute detail that they went forward confidently and, as we all now know, succeeded in vanquishing the enemy.

Coordination has become almost the most powerful weapon of all; without it the war could not possibly be won. Your part, or my part, in the war effort, may be very small, but, remember, if only one small cog is missing from the wheel, it stops the whole mechanism.

. . . —

American industry's blue prints for the giant task of converting a record wartime production back to civilian goods without loss of employment have just been summarized in "Post-War Planning Now", a new study published by the New York Journal of Commerce. The information was obtained from interviews with key manufacturing executives and government officials thruout industrial America. Copies may be had at 25 cents each from The N. Y. Journal of Commerce, 63 Park Row, New York.

. . . —

It is no time for exultation. It is no time for pause. It is time for renewed effort; time for that all-out effort, which after almost two years of war still is to be attained.
—Washington Review.

. . . —

Invest in a Free Future—BUY WAR BONDS.

THE AUTO INDUSTRY'S NEED OF ASBESTOS AFTER THE WAR

Automobile manufacturers will need 62,100,000 pounds of asbestos in the first three postwar years, on the basis of authoritative estimates of probable postwar production and assuming that the amount of asbestos going into passenger cars is the same as that used in prewar models.

According to the 25th edition of "Automobile Facts and Figures" just published by the Automobile Manufacturers Association, the typical 1942 model passenger car used 3.45 gross pounds of asbestos or 2.60 net pounds.

Particular significance is given these figures in view of the announced intention of major car makers to resume production of 1942 models as soon as possible after the war. And, since automobile manufacturers are inclined by experience to make changes gradually rather than suddenly, the amount of asbestos going into postwar cars is not likely to be changed substantially for some time.

As to the number of cars that will be produced in the years immediately following the war, there are, of course, varying estimates, but all agree that the increase over normal prewar years will be tremendous.

C. Scott Fletcher, sales manager of Studebaker Corporation and director of the field development division of the Committee for Economic Development, major postwar planning agency of American business, predicted in a recent address that 18,000,000 automobiles will be placed on the market in the three year period following the end of the war.

Such production, which would reqiure 62,100,000 pounds of asbestos, would be nearly double that of the three years 1939 to 1941, inclusive, during which, according to statistics of the Automobile Manufacturers Association, the industry produced a total of 10,303,424 passenger cars.

In 1929, the automobile industry's past peak year, a total of 4,587,400 passenger cars were produced, as contrasted with the six-million-a-year-average forecast for the three years following the war.

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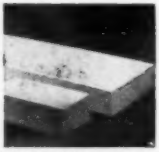

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ASBESTOS BONDING IN SEWER PIPE

By F. N. Hollingsworth

Years ago engineers discovered that most of the wear in a sewer or drain is confined to the bottom of the pipe, and so the Armco Drainage Products Association, a group of manufacturers of corrugated sewer and water drainage piping, developed a new type of pipe, with a special, smooth, bituminous pavement in the bottom. More than four million feet of this type of pipe has been installed for sewer and drainage purposes, including culverts.

It was found, however, that under severe corrosive conditions, such as sewage acids, the bituminous material was likely to chip or become loosened. Therefore a new process, called Asbestos Bonding, was developed by association engineers. Now the bituminous material is actually bonded to the pipe in such a manner that it will stick indefinitely, whether in service, handling or in storage. This development opened up tremendous possibilities for the use of corrugated metal pipe in drainage and sewer construction.

As the flat sheets of ingot iron emerge from the galvanizing rolls, a layer of asbestos felt is forced into the molten zinc coating. under a pressure ofseveral thousand pounds. When the zinc hardens, a portion of each asbestos fibre becomes securely embedded in the zinc coating. Next the porous mass of asbestos fibres remaining on the surface of the sheet is thoroly saturated with a special bituminous material. The sheets are allowed to cool, after which they are corrugated and carefully inspected.

When these sheets are fabricated into corrugated pipe, paved and coated in the usual way, with the bituminous material, there is a permanently tight bond between the asbestos, bituminous coating and the metal. This process prolongs the life of the corrugated pipe, while the plastic range of the bituminous material is widened as much as 52 per cent, providing an additional factor of safety, especially where the pipe must be stored or handled during extreme variations of temperature.

In a test of the asbestos bonded pipe, a coated half-

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section was placed inside a refrigerator and frozen down to zero Fahrenheit. A solid steel ball, weighing 1.67 pounds, was then dropped onto the frozen sample from a height of 7½ feet, with no evidence of spalling or cracking of the bituminous material. As a further test, a paved and coated specimen was placed upright in an electric furnace and left that way for four hours, at a temperature of 180°F. At the end of this test the thick bituminous pavement, thicker and heavier than the coating that held the asbestos bond, had flowed less than a quarter inch. The layer of asbestos also produces a cushioning effect, which absorbs the pressures caused by water freezing in the pipe. And being a non-conductor of heat and cold, it helps to maintain the bond between bituminous coating and metal, despite the different coefficients of expansion.

TAUNTON MUNICIPAL LIGHT PLANT

The first and only semi-outdoor steam generating plant in New England is that installed in 1942 by the Taunton Municipal Light Plant. It supplies steam for a topping turbine that generates electric power for the municipal lighting system at a throttle pressure of 850 pounds. Steam leaves the turbine at a back pressure of 200 pounds and is then used to operate existing 200 pound pressure turbine generators, high pressure heaters and steam auxiliaries. After these it is used to supply central steam service via the underground steam system to a large number of industrial customers located close to the Water Street Generating Station.

These customers are all within a three-quarter mile radius of the electric plant and steam generator, and under the new arrangement, with the new steam generator, all of the steam sold to industrial customers has already generated electricity.

The new equipment includes a Riley-Stoker Corporation steam generating unit with a continuous rating of 170,000 pounds of steam per hour, delivering steam at 900 pounds per square inch and 825°F. at the superheater

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outlet. This unit has a peak capacity of 212,000 pounds of steam per hour for a period of three hours, when using oil as fuel. Came along the shortage of fuel oil and the unit, which was designed for dual firing, was changed over to pulverized coal, without any difficulty in so doing.

The new system includes a coal conveyor system with unloading and reclaiming hoppers, coal crusher and complete equipment for receiving coal on a private siding 300 feet away, a steel bunker 90 feet high with 200 tons capacity, and magnetic separators to remove any metals from the down fed coal.

The underground steam system is installed in underground concrete envelopes, with mains varying in size from 10 inches down to four inches. This underground system was installed by the Underground Steam Construction Company of Boston, which insulated all the mains with 2¼ inch thick asbestos sponge felt, protected by a weatherproof jacket. The material was supplied by Keasbey & Mattison Company. Arthur L. Nelson & Associates, Boston, were the consulting engineers.

There are 1,031 feet of 10 inch mains and 3627 high pressure 8 inch, with 469 feet more of low pressure mains included in the underground system. Some 125,000,000 pounds of steam were sold by this plant in 1942, with a peak load of 42,000 pounds per hour.

This plant is one of only two municipal plants in New England selling steam commercially, and one of very few in the entire country so doing.

Adoption of the semi-outdoor type of steam generator saved the management about $25,000 in building construction, the generator and auxiliary equipment costing only about $2,000 more than an indoor type generator.

. . . —

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BERNARD E. WILLIAMS

A Brief Biography

Bernard E. Williams, a Director of Turner & Newall, Limited, retired from active business in September 1942, but during his thirty years spent with the Turner interests, he contributed much to the progress of the Asbestos Industry.

Mr. Williams began his business career as a Mechanical Engineer. At the time of his retirement he was Joint Managing Director of Turner & Newall Limited,

Bernard E. Williams
Director of
Turner & Newall. Ltd.

Chairman of the Asbestos-cement Group, and a Director of nine subsidiary companies.

His engineering career consisted mainly in the design and manufacture of steam engines and pumping machinery. He served his apprenticeship with J. & H. Gwynnes Ltd., of Hammersmith, London. In 1903 he joined the firm of Bellis & Morcom Ltd., Birmingham, manufacturers of the well known high speed forced lubricating steam engine, steam turbines and condensing plant, etc. He became Outside Manager of that Company, which brought him into direct touch with many large undertakings thruout the country and abroad, including electrification of the London Underground Railways, coal mines in England, Scotland and Wales, and

with the principal dockyards and manufacturing concerns.

It was during his work with Bellis & Morcom Ltd., that he met Mr. Samuel Turner (the present Sir Samuel Turner) who asked him to join his Company, and finally, in 1910, Mr. Williams took charge of the London Office of Turner Brothers Limited, later Turner Brothers Asbestos Co., Ltd. He held this position for three years and then became General Sales Manager with headquarters in Rochdale. Later he had charge of the Trafford Park Plant which was mainly engaged in the manufacture of asbestos-cement products, asbestos paper and millboard and various forms of asbestos insulation. Thus he knew intimately both the manufacturing and sales ends of practically all asbestos products.

In December 1923 he was made a Director of Turner Brothers Asbestos Co., and in June 1926 a Director of the parent Company, Turner & Newall Ltd., which latter position he still holds.

Mr. Williams says he has spent a most interesting and enjoyable period in the Asbestos Industry, has seen many changes and met many interesting people. He has traveled extensively,—to the Continent in connection with the International Association formed some years ago for the exchange of technical information with the Asbestos-Cement Industry; to the firm's asbestos mines in Rhodesia and Swaziland, Africa; to the United States and Canada. He was planning to visit America again in 1939, in fact had his reservations made, when the outbreak of the war forced him to change his plans. He is at present living in retirement at Oak Mount, Timperley, Altrincham, Cheshire, England.

. . . —

A "Better Homes Department" has been established by Westinghouse Electric & Mfg. Company, the immediate function of which will be to coordinate the Company's activities in helping to house war workers, tho its ultimate objective is to develop post-war housing markets for the contributions which electricity is making toward better living.

M-123 AND M-283 COMBINED

Changes in Prohibited Uses of Asbestos Textiles

To effect further simplification of War Production Board orders covering asbestos textiles, Conservation Orders M-123 and M-283 have been combined. Order M-283 was formerly an allocation order, and Order M-123 was a limitation order outlining certain restricted uses of asbestos textiles. Amended Order M-283 issued October 11th, covers both the allocation of asbestos textiles and the prohibited uses. Order M-123 was revoked, its substance having been incorporated in M-283.

There is no major change in the allocation procedure; it remains essentially the same as that outlined in the former Order M-283.

Several changes however have been made in the prohibited uses of asbestos textiles:

1. The use of asbestos textile conveyor belts is no longer prohibited.
2. Asbestos textiles may now be used in the production of electrical heater cords for replacement purposes for electric flat irons and electric soldering irons, but asbestos textiles used in replacement cord sets will be permitted only to the extent that these cord sets are permitted to be produced under Order L-65.
3. The use of asbestos textile covering over heat insulations has been prohibited except for certain limited applications.

The order, as now amended, places further restrictions on the grade of asbestos, and the cut, or size, of asbestos yarns which may be used in the production of base fabrics for laminated plastics, mechanical packings and gaskets, and friction material.

The small order provision has been changed to some extent which will allow companies having several different purchasing units to consider these units as separate entities for the purchase of less than 100 pound lots of asbestos textiles. Formerly, under M-283, for the purpose of ordering small quantities, all purchasing units of a company were considered as a whole and if any one plant, purchasing unit, etc., of a company purchased 100 pounds

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or over, the smaller purchasing units would then have to make application for any small quantities. Under the revised order these smaller purchasing units will be able to purchase under the small order provision even tho another unit of the company has purchased over 100 pounds.

Those interested can obtain a copy of Conservation Order M-283, as Amended October 11, 1943, by request addressed to the Office of War Information, Washington, D. C.

FAT EXTRACTION DETERMINATION

There was recently developed[1] to replace the heavy, fragile ordinary Soxhlet extraction apparatus a compact, rugged and easily operated unit to determine the fat extraction of various feeds.

The new unit consists of 20 large test tubes, with metallic zinc dust, wrapped securely in foil, placed on the bottom of each tube to make the heat transfer more efficient.

The outer tubes of the unit are heated in a copper water bath having 20 cups for the tubes and a copper tube condenser on each end to keep the water level constant. The copper bath is covered with 6-mm. (0.25-inch) hard asbestos board supported on a 1-inch wood frame, leaving a 1-inch air space between the bath and the asbestos board cover, except on the top.

A constricted lipped container holds the ether and collects the fat. A funnel-top filter tube, 100 mm. long, rests on top of the constricted fat container and is held upright by the funnel top. This filter tube holds the sample of feed and is made up as follows: A cupped perforated tin disc is placed in the bottom beneath a 10-mm. asbestos pad, which is acid and alkali-washed and ignited, on which the feed is placed and covered with a thin layer of asbestos. This layer, with a small amount of the bottom pad, is removed with the feed for the crude fibre determination.

Results obtained by the use of this new apparatus, made possible by the chemical properties of asbestos, are said to correspond closely with those secured by the ordinary Soxhlet extraction device.

[1]By the West Virginia Agricultural Experiment Station at Morgantown, W. Va.

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YOUR IDLE THOUGHTS

A Lesson in Selling

A salesman who still travels by automobile related to me a significant personal experience. "For years," he said, "I dreaded auto jumps between cities. Arriving, I always seemed off balance, with respect to my salesmanship. I would be two or three hours, at least, hitting a stride. I blamed the condition on the strain of driving.

"But I have had an unusual experience. I don't fear the jumps at all now—not if I have a passenger with me. For years, I cautiously avoided hitch-hikers. Now, I exercise some care, but I'm glad to pick up a soldier, a college student, or someone else I feel is safe.

"I have discovered that with such a passenger I plunge into my calls on arrival, and do a good job."

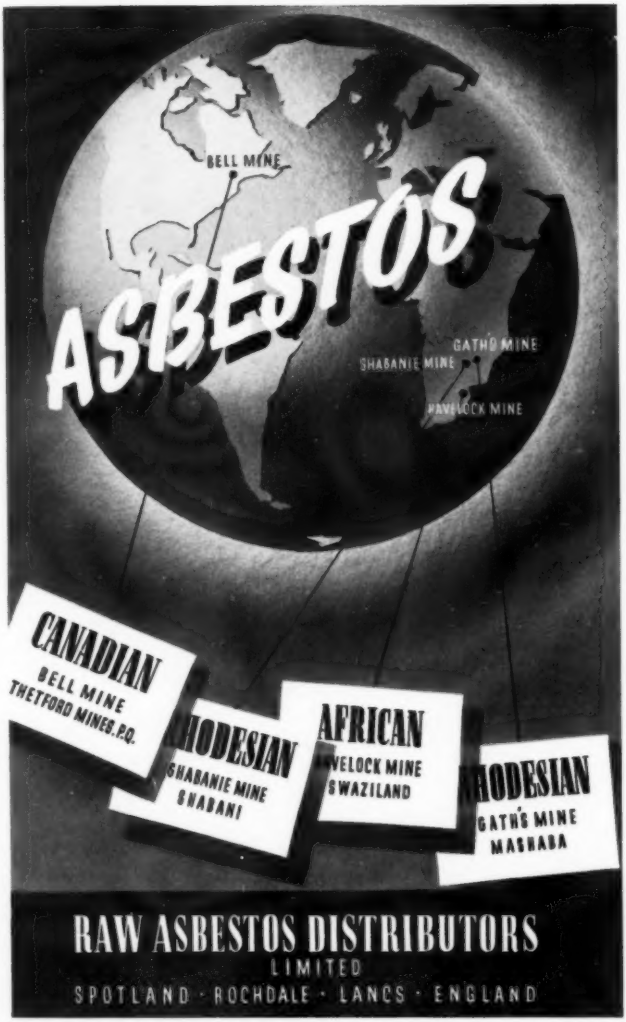
I probed to get the real explanation of this unusual story. Eventually I got at the real facts. Driving a car alone, this salesman's "idle thoughts" were negative ones. He always thought about the wrong things. He brooded over the fancied antagonisms of his sales manager. He considered the circumstances of his family—and enviously thought of a brother who had married a rich girl. Sometimes he would worry about his health.

So consistently did he think of the wrong things that, arriving in the next town, he was always mentally unfit for selling.

Taking along a soldier or college boy, the salesman had no opportunity to think negative thoughts. Instead he had the initial spiritual mood which comes from doing something for another. The conversation was wholesome, stimulating. On arrival, he was fresh, hopeful.

The "idle thoughts" which a salesman has, no matter where he has them—as he prepares for bed, as he handles breakfast, as he walks from one call to another—they're a sensitive relation to his selling fitness. He can think of so many things that will tend to discourage and unnerve him. He can think of so many other things that will give him a lift.

Cultivate the habit of thinking bright, hopeful things.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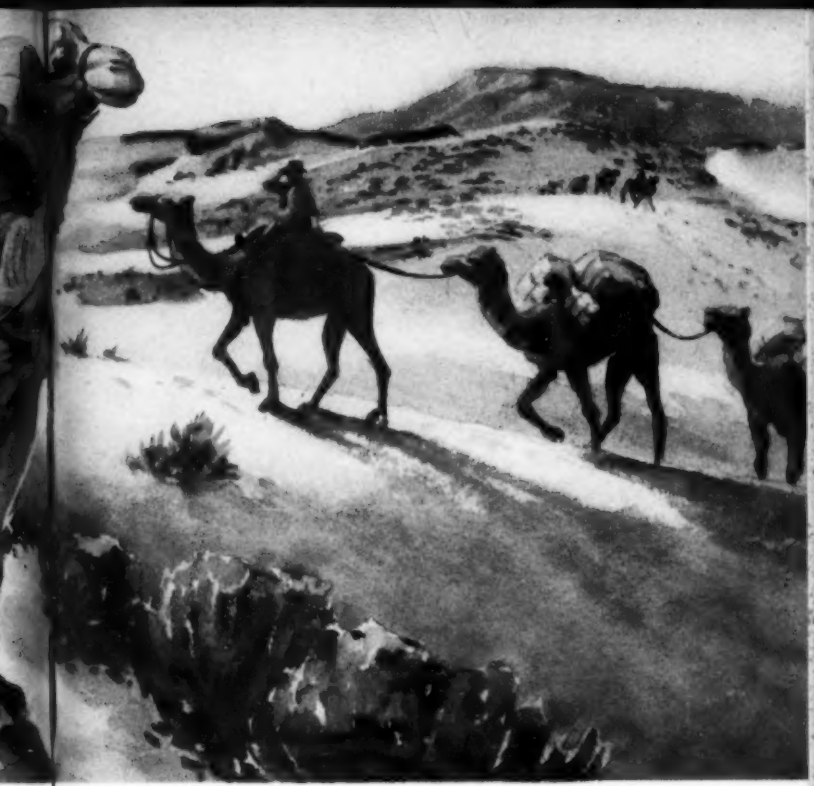

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MARKET CONDITIONS

GENERAL BUSINESS

It isn't easy at this time to say just a few words on general business conditions, because each Industry has a different tale to tell.

The war essential industries continue very busy, with the exception of those feeling the effect of change-overs in design, or the shifting of production demand from one implement of war to another. Makers of those articles most needed are endeavoring to step up production, while in the case of some war implements, where production has for one reason and another overtaken the demand, output has slackened.

The manpower situation is becoming more and more difficult, both in essential and non-essential industries. In many lines production is slowed up because of insufficient workers or inefficient ones (inefficient owing to lack of experience or training.) To partly combat this, training and vocational schools are becoming more and more plentiful all over the country.

Employers are finding remedies for absenteeism which for a while was blamed almost entirely on irresponsibility, or indifference of workers to war demands. Surveys have shown that in the majority of cases if certain conditions are corrected, the percentage of absenteeism automatically drops.

The fuel situation (this year coal rather than oil) is causing some concern. It must not be allowed to affect war production.

In spite of these and many other problems monthly production is showing increases where increases are needed.

And the war, we must remember, goes steadily on.

ASBESTOS - RAW MATERIAL

Demand for all grades of Canadian Asbestos continues steady—strong with respect to textile qualities. Mines are operating at capacity; prices are firm.

Shortage of labor in all asbestos manufacturing

plants in the United States prevents capacity production of asbestos goods; otherwise United States consumption of asbestos fibres would be larger.

The delivery of African fibre is reported as satisfactory—very close to schedule.

Demand for asbestos textile goods is still in excess of supply and only by the greatest cooperation on the part of the manufacturers under the allocation order can all factories be kept in operation.

The use of C&G/3 as now required by Order M-79, in the ratio of one ton of C&G/3 to each five tons of Canadian 3R is receiving conscientious support from the spinners, and we are told that there is a possibility that this will result in a substantial increase in the amount of spinning fibre available of a grade corresponding to Canadian 3R.

ASBESTOS - MANUFACTURED GOODS

Asbestos Textiles. There has been no tapering off in this market. There may be some rearrangement of types of materials required in coming months but the overall quantity needed continues high. Aviation demands in fact are reported as increasing. Prices are firm under such conditions.

Brake Lining. Demand in this market is reported as steady with tendency to increase; prices stable.

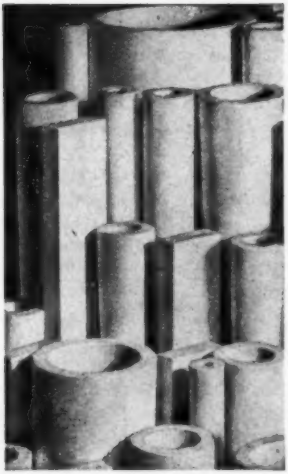
September sales of friction material for domestic consumption increased over August, and over September of last year. Sales for export, however, decreased not only from September of last year but also from the previous month.

Asbestos Paper. The market has been active because of seasonal conditions and the relaxing of government control on heating equipment. Stocks are said to be well maintained in jobber warehouses. Opinions differ as to future trend. It is reported to us as "decreasing", as "steady", and some of the manufacturers believe the Paper market will be very active at least for the first half of 1944.

Asbestos Millboard. Most of the work where mill-

LOW

THERMAL CONDUCTIVITY



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PLANT
RUBBER & ASBESTOS WORKS

Manufacturers of Plant Insulating Materials and Mechanical Packings Since 1920

MAIN OFFICE: SAN FRANCISCO

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Factories in Emeryville, San Francisco, and Redwood City, Calif.

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85% MAGNESIA
"THE DEPENDABLE STANDARD—MODERNIZED"

U. S. Patent Nos. 2,131,374, 2,209,752, 2,209,753, 2,209,754

COMPLETE RANGE OF SIZES AND THICKNESSES IN BLOCKS AND PIPE COVERINGS

(In sectional form up to and including 18-inch pipe size.)

board has been used in large quantities has been completed, which means that future demand will come from regular channels of distribution, and therefore very likely show a falling off from the past unusual activity in this market. Prices are reported as steady.

Insulation. High Pressure. Demand at present continues active on account of the 1944 ship program. This condition should prevail for at least the next twelve months. Prices continue firm.

Insulation. Low Pressure. Continued heavy call for high pressure insulation will result in keeping low pressure active, but even under such conditions future demand is regarded as only fair, with a tendency to decrease rather than increase. Prices remain level.

Asbestos Cement Products. In this market mills are several weeks behind on shipments, and the backlog of unshipped orders remains at a relatively high level.

Demand for shingles has lessened on Government work, and there is also noticeable some seasonal falling off on dealer business altho the backlog of orders remains high.

On corrugated and flat sheets the market is fairly steady altho, it is reported, smaller than a year ago.

The Industry's problem appears to be one of production, rather than distribution, at present.

In the asbestos-cement pipe field, while the industrial division shows a slowing down in volume required, the municipal field will probably keep pipe requirements at present or higher levels.

The price situation thruout the Industry is said to be steady.

The above comments have been sent us by men in close touch with the various markets; opinions from all readers familiar with the markets are always welcome.

TEST

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AMERICAN ROOFER and SIDING CONTRACTOR
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ADHESIVE TAPE TO SUPPORT DUCT UNTIL CEMENT SETS
SIDES, TOP AND BOTTOM MADE OF ASBESTOS CEMENT BOARD, MASONITE OR SIMILAR MATERIAL
ATLAS ADHESIVE #1770

For fabricating non-metallic air ducts, etc., from Asbestos Cement board, Transite, Masonite and similar materials

ATLAS ADHESIVE #1770

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Atlas Supply Co.

4520 High Street, Philadelphia, Pa.

Makers of adhesives for cork, Fiberglas, rock cork and all types of insulation

WRITE US FOR INFORMATION AND PRICES

CONTRACTORS AND DISTRIBUTORS PAGE

L-41 REVISED

A completely re-drafted Order L-41, which limits construction, was issued in simplified form on November 1st. The new language of the order is intended to make the restrictions more easily understandable by the public.

In addition to simplifying the regulations and instructions, some changes have been made, the principal ones being:

1. The limit on farm construction, including residential, is placed at $1,000. Previously there were separate limits, farm residences not being considered part of the farm unit.

2. A limit of $200 is placed on any type of construction for which higher specific limit is not authorized by the order. This over-all limit formerly was $1,000.

3. Installation of plumbing equipment rated on WPB-2631 is permitted if the cost is under $200.

Those interested should obtain a copy of WPB-4528 from the Office of War Information, Washington, D. C., or a copy of Order L-41 as amended November 1st, 1943.

BUILDING

Construction contracts awarded in the 37 eastern states aggregated $2,623,839,000 during the first nine months of 1943 as compared with $6,111,765,000 in the corresponding period last year, according to F. W. Dodge Corporation. This represents a drop of 57 per cent with both public and private construction showing approximately the same percentage change. All three of the major categories showed a marked reduction in volume, i. e., non-residential building, down 61 per cent; residential building, down 50 per cent; and heavy-engineering work down 56 per cent. These decreases from 1942 represent the continued decline in needs for new facilities in the current high-production phase of the war program.

The month of September 1943 showed a total construction figure of $175,115,000 as compared with $413,791,000 in the preceding month and $723,216,000 in September 1942. The month's volume was the lowest for any month since February 1938. Non-residential building, residential building and heavy-engineering work were below September 1942 by 85 per cent, 57 per cent and 61 per cent, respectively.

CURRENT RANGE OF PRICE

As of November 10, 1943

Canadian—	Per Ton (2000 lbs.) f.o.b. Mine (In U. S. Funds)		
Group No. 1 (Crude No. 1)	$650.00	to	$750.00
Group No. 2 (Crude No. 2; Crude Run-of-Mine and Sundry)	165.00	to	385.00
Group No. 3 (Spinning or Textile Fibre)	124.00	to	233.50
Group No. 4 (Shingle Fibre)	62.50	to	82.50
Group No. 5 (Paper Fibre)	44.00	to	49.50
Group No. 6 (Waste, Stucco or Plaster)	33.00	to	34.00
Group No. 7 (Refuse or Shorts)	14.50	to	29.50

Vermont—	Per Ton (2000 lbs.) f.o.b. Hyde Park, Vt.		
Shingle Fibres	$62.50	to	$65.50
Paper Stock Fibres	44.00	to	54.00
Waste			33.00
Shorts	14.50	to	28.50
Floats			19.50

Note: Crude Run-of-Mine (Canadian) refers to a crude asbestos produced in certain mines where Crude Fibre is not graded into regular No. 1 and 2 Crude. Crude Sundry refers to certain odd lots of off grade material which do not conform to the regular standards of No. 1 Crude or No. 2 Crude.

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial and Financial Chronicle. No guarantee made as to their correctness.)

		October 1943		
	Par	Low	High	Last
Armstrong Cork Co. (Com.)	np	35½	38¼	37¾
Asbestos Corp. (Com.)	np	24½	25	24½
Celotex (Com.)	np	12	13⅛	12½
Celotex (Pfd.)	20	17⅛	18½	18⅛
Certainteed (Com.)	1	5⅝	6½	5¾
Certainteed (Pfd.)	100	64	72⅝	67½
Flintkote (Com.)	np	19⅝	21	20¾
Flintkote (Pfd.)	np	105	110	107
Johns-Manville (Com.)	np	87½	91⅝	89
Johns-Manville (Pfd.)	100	128½	131½	129⅞
Raybestos-Manhattan (Com.)	np	25	27⅝	25⅝
Ruberoid (Com.)	np	25¼	28	25⅝
Thermoid (Com.)	1	8½	9¼	8⅝
Thermoid (Pfd.)	10	45	47½	46½
U. S. Gypsum (Com.)	20	72½	76	72¾
U. S. Gypsum (Pfd.)	100	174	179	179
U. S. Rubber (Com.)	10	41½	45¼	42½
U. S. Rubber (Pfd.)	100	123	126½	126½

NEWS OF THE INDUSTRY

BIRTHDAYS

J. A. Marcotte, General Sales Manager, Asbestos Corporation Limited, Thetford Mines, P. Q., Canada, November 22.

F. R. Anderson, Vice President, Sall Mountain Co., Chicago, Ill., November 24.

Alvin C. McCord, President, McCord Radiator & Mfg. Co., Detroit, Mich., November 24.

John J. Krez, President, Paul J. Krez Co., Chicago, Ill., November 26.

S. J. Gillis, Waterfront Manager, Plant Rubber & Asbestos Works, San Francisco, Calif., November 26.

Alfred E. Hermes, Secretary-Treasurer, Acme Asbestos Covg. & Flooring Co., Chicago, Ill., November 27.

Frank N. Grossman, Secretary, Arnold Insulations, Inc., Chicago, Ill., November 28.

E. T. Connell, President, Connell Asbestos Co., Brooklyn, November 29.

S. P. Moffit, Vice President and Director, The Ruberoid Co., New York City, November 29.

R. E. Kramig, Senior Partner, R. E. Kramig & Co., Cincinnati, Ohio, November 29.

K. H. Behre, Sales Manager, Vermont Asbestos Mines, (Division of The Ruberoid Co.) New York City, December 5.

Victor Mauck, President, Nicolet Asbestos Mines, Norristown, Pa., December 6.

Kenneth MacLellan, Managing Director, George MacLellan & Co., Ltd., Glasgow, Scotland, December 8.

Joseph Poulin, President and General Manager, Asbestonos Corporation, Ltd., St. Lambert, Montreal, P. Q., Dec. 15.

L. J. Silverman, Executive Vice President and Treasurer, Union Asbestos & Rubber Co., Chicago, Ill., December 16.

To all these gentlemen we extend greetings and congratulations on the occasion of their birthdays.

• • • —

"STRATEGIC USES OF NON-METALLIC MINERAL BUILDING MATERIALS" is the title of an article in the October issue of Precambrian, published in Winnipeg, Canada. The author is Dr. Oliver Bowles of the U. S. Bureau of Mines.

"SHORT-CUT IN ESTIMATING HOME INSULATION" by Walter Alwyn Schmidt, is published in the October issue of American Roofer. Insulation contractors in the asbestos line may find this helpful. The American Roofer is published at 425 4th Ave., New York City 16.

• BLUE ASBESTOS

The Cape Asbestos Company, Ltd., is the world's largest supplier of acid-resistant blue crocidolite asbestos, and the only manufacturer operating its own mines. Inquiries solicited on:

MILLBOARD YARNS
ROVINGS POWDER CLOTHS
PROCESSED FIBRES
Unexcelled for use in
ASBESTOS CEMENT PIPES

• AMOSITE ASBESTOS

This fibre owing to its great length and bulk is unrivalled for use as an insulating medium in:

Asbestos mattress filler
85% Magnesia Insulation

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United States Sales Agent:
ARNOLD W. KOEHLER
415 LEXINGTON AVE. NEW YORK CITY
TELEPHONE—VANDERBILT 6-1477

K&M RECEIVES ARMY-NAVY "E" AWARD

The Ambler plants of Keasbey & Mattison Company were presented with the Army-Navy "E" Award on October 19th, when the men and women of those plants were especially honored in having as their special guest and principal speaker at the award ceremonies the Honorable James V. Forrestal, Under Secretary of the Navy. Mr. Forrestal personally presented the "E" flag, signifying excellence of war production, to Mr. Ernest Muehleck, president of the company, who accepted it on behalf of the employees.

Another distinguished guest was United States Congress-

Holding the Flag (from left) Ernest Muehleck, Peter V. Fletcher, Rear Admiral E. T. Allen, The Hon. James V. Forrestal, The Hon. J. William Ditter, Brigadier General A. A. Farmer

man J. William Ditter, who acted as master of ceremonies. Mr. Ditter, representative from Montgomery County and a leading figure on the House Naval Appropriations Committee was accompanied from Washington by Rear Admiral E. T. Allen, Budget Director of the Navy.

Brigadier General A. A. Farmer, U. S. Army, Commanding Officer of the Signal Corps Depot in Philadelphia, presented the "E" lapel insignia to a token committee of six consisting of the oldest K&M employees from point of service in each of Plants 1, 2, 4, 5, 8 and the Main Office. These six men boasted a record of 256 years of combined service for the company.

Peter V. Fletcher, president of Local 2409, United Textile Workers of America (Asbestos Division) formally accepted the pins on behalf of the employees.

Immediately following the ceremonies a buffet luncheon was served in the Ambler Opera House for all employees and the many high ranking Army and Navy officers present. A visit thru all the plants followed the luncheon.

• • • —

THE RUBEROID CO. celebrated its 57th Anniversary on October 20th. A letter in honor of the event was sent by Herbert Abraham, President, to the 3500 factory and office workers. The letter was a part of an anniversary leaflet which carried the names of 105 Ruberoid employees who have been with the company continuously for 25 years or more, and also mentioned the fact that 861 Ruberoid employees are now with the armed forces, five of which have been reported missing in action.

SAMUEL D. VAN VLEET, secretary and comptroller of The Ruberoid Co., died on October 12, 1943, at his home, in East Orange, N. J. He was 69 years old.

Mr. VanVleet had been associated with The Ruberoid Co. for 32 years, having been first employed as an accountant. He was a native of Newark, N. J., and prior to his association with The Ruberoid Co., was connected with the Fulton Trust Co., New York City.

JOHNS-MANVILLE operations for the nine months ended September 30, 1943, showed sales of $77,720,158.80 compared with $76,829,067.96 for the same period last year. Earnings for the nine months period in 1943 were $3,195,528, compared with $2,885,336 in 1942.

Detailed figures follow:

	Nine Months Ended	
	Sept. 30, 1943	Sept. 30, 1942
Sales, less cash disc., allowances	$77,720,158.80	$76,829,067.96
Income from royalties, com., div., etc.	203,548.42	313,360.19
	77,923,707.22	77,142,428.15
Expenses:		
Raw materials, etc.	26,817,994.91	26,080,418.42
Products for resale, cost	2,302,927.60	3,117,657.19
Wages and Salaries	32,455,575.61	26,982,604.19
Depreciation and depletion (of machinery, buildings, mineral properties)	1,991,211.01	2,020,620.57
Contingencies — war conditions	2,280,000.00	1,720,000.00
Taxes	8,880,470.07	14,335,792.26
Total Expenses	74,728,179.20	74,257,092.63
EARNINGS	$ 3,195,528.02	$ 2,885,335.52
Equal after required preferred dividends to a profit per common share of	3.61	3.24

Sales for the third quarter only were $26,692,498.71 in 1943, compared with $28,074,219.47 in 1942. Net earnings for the third quarter of 1943 were $1,048,607.29 compared with $1,085,946.79 in 1942.

HARRY A. KING SALES MANAGER VERMONT ASBESTOS MINES

Announcement has been made of the appointment of Harry A. King as manager of asbestos fibre sales for Vermont Asbestos Mines, division of The Ruberoid Co. In his new position, Mr. King succeeds K. H. Behre, who has been advanced to an important administrative post in Ruberoid's main office in New York, due announcement of which will be made.

Harry A. King

Mr. King has been associated with the asbestos industry for more than twenty years, having been a member of the original sales organization of Eternit, Inc., manufacturers of asbestos-cement building products, at St. Louis. In 1930, when the Eternit plant and business were acquired by The Ruberoid Co., he joined the Ruberoid organization. For the past several years he has been manager of industrial sales, which position he will continue to hold. Thru his long association with the industry, he enjoys a wide personal acquaintance among asbestos users.

• • • —

THE RUBEROID CO. reported for the quarter ended September 30, 1943, consolidated net profit of $148,638, equal to 38 cents per share, after all charges including provision of $255,900 for Federal income and excess profits taxes. Net profit of $177,285, equal to 45 cents per share was reported in the third quarter of 1942.

Net sales in the third quarter of 1943 amounted to $7,554,601, compared with $8,521,848 last year.

For the first nine months of 1943 consolidated net profit amounted to $399,204, equal to $1.00 per share, compared with $445,431 (or $1.12 per share) in the corresponding 1942 period.

Net sales for the first nine months of this year were $20,026,802, compared with $22,266,937 last year.

GORDON C. ESTES, formerly merchandise manager of the Certainteed Products Corporation, has been appointed General Manager of Jones & Brown, Inc., of Pittsburgh, Pa., national distributors of Inselbric and Inselstone.

Mr. Estes for over twenty years was General Sales Manager of The Lehon Company of Chicago.

THERMOID HOLDS WAR CONFERENCE

Thermoid Company, Trenton, N. J., held an eight-day war conference in October, attended by Company executives, field sales executives and all salesmen from every sales division of the Company.

The purpose of the meeting was a thoro, detailed discussion of the Company's present and post-war activities and problems. The group also toured Thermoid's plants and inspected Thermoid's greatly expanded manufacturing facilities.

It was the first Thermoid sales meeting to bring together the Original Equipment Division, the Automotive Replacement

From left:
L. R. Leaver
Fred Schluter
D. P. Allen

Division, the Industrial Rubber Products Division, and the Textile Division. Over 100 Thermoid salesmen from all over the country attended the conference.

Company executives who attended, included F. E. Schluter, President, C. A. Klaus, Vice President directing Automotive Replacement Sales, S. H. Lyons, Vice President directing Industrial Rubber Products Sales, D. P. Allen, Vice President in charge of Original Equipment Sales, and George Fabel, President of Southern Asbestos Company.

Executives of the Joseph Stokes Rubber Company, Trenton, N. J., recently acquired by Thermoid Company, also attended the conference meetings. They included W. J. B. Stokes II, President of Joseph Stokes Rubber Company, and Lloyd R. Leaver and Lloyd Falkenhagen, operating heads of Joseph Stokes Company, Ltd., of Welland, Ontario, Canada.

• • • —

CANADIAN JOHNS-MANVILLE CO., LTD., at Asbestos, Que., One of the best Fifth Victory Loan Campaign Bond Sales records in Canada was obtained by the employees of this firm, when 129 worker canvassers sold $157,000 worth of bonds to the Company's 1704 employees. The Company was awarded the War Finance Committee Three Star "V" Flag, for obtaining 90% employee participation and monthly purchases of bonds and war saving certificates equal to 15% of the payroll.

THERMOID COMPANY. The completion of Thermoid's acquisition of the Joseph Stokes Rubber Company of Trenton, and its subsidiary in Welland, Ont., Canada, has been announced by Fred Schluter, President of Thermoid Company. W. J. B. Stokes II will remain as President of Joseph Stokes Rubber Company, devoting most of his time to manufacturing and engineering problems in that factory. No change in the sales methods of the Canadian subsidiary are contemplated. Lloyd R. Leaver, Vice President and General Manager of the Canadian plant at one time acted as Sales Manager for Thermoid's Industrial Rubber Products Division. Since Stokes of Canada sells largely to the same branches of the trade, there will be close collaboration between the Detroit Original Equipment Division of Thermoid and Stokes of Canada management. (See page 34 of September 1943 "ASBESTOS" for previous announcement.)

J-M's QUARTER CENTURY CLUB acquired seven new members on October 29th, when J. C. Kelleher, O. B. Kinney, J. A. Dowling, R. B. Ackerman, E. A. Wood, Mrs. Catherine Delaney Mitchell and Miss Gertrude Schroeder, all in the New York-New Jersey area were inducted into the Club at a luncheon given by their associates at the Building Trades Employers Association, New York City.

MANHATTAN RUBBER MFG. DIVISION of Passaic, N. J., has been awarded the highest prize in the National Victory Garden Institute competition. Over 400 gardens worked by Manhattan's employees were included in the project which covered two and a half acres. J. J. DeMario, advertising manager of the Company, was chairman of the Manhattan Victory Garden Committee; he was assisted by L. S. Hilton of the Abrasive Wheel department.

CLARENCE B. MOORE has been appointed head of the Rubber Division of Thermoid Research Laboratories. Mr. Moore was formerly with Goodyear Tire & Rubber Company and other rubber organizations.

"MILITARY HUTS AND STRUCTURES AT AMERICAN INSTALLATION IN BRITAIN". This article by Waldo G. Bowman, Editor of the Engineering News-Record, appears in the October 21st issue of that magazine, which is published by McGraw Hill Publishing Co., 330 W. 42nd St., New York City.

ASBESTOS CORPORATION LIMITED announces the retirement from their Board of Directors of G. R. Cottrelle, occasioned by the very heavy demand upon his time and energy by the office of Oil Controller for the Dominion of Canada which he holds.

The vacancy has been filled by the appointment of F. E. Notebaert, well known in the business and financial world both in Montreal and New York.

PATENTS

This information obtained from the Official Patent Gazette, published weekly by the U. S. Patent Office, Washington, D. C.

Copies of patents can be obtained by sending 10c (in coin) to The Commissioner of Patents, Washington, D. C., giving the patent number, date it was issued, name of patentee and name of invention.

Calking Compound. No. 2,325,726. Granted on August 3, 1943, to H. L. Acker, Hollywood, Calif. Assignor to W. P. Fuller & Co., San Francisco, Calif. (This patent was missed previously). Application October 9, 1940. Serial No. 360,446.

A calking compound consisting of unmodified alkyd resin, derived from a polyhydric alcohol and aliphatic di-carboxylic acid, an inert filler such as ground mica or asbestos fibre, and zinc chromate.

Brake Shoe. No. 2,328,738. Granted on September 7, 1943 to Nils William Nelson, Colonie, New York. Assignor to Bendix Aviation Corporation, South Bend, Ind. Application April 28, 1941. Serial No. 390,683.

The method of securing a brake lining to a shoe which comprises temporarily attaching the lining to the shoe by means of a plastic securing member extending thru both and dipped in thermoplastic liquid and utilizing the heat of braking to cause the liquid to set and thereby cause the securing member to adhere permanently to the lining.

Pipe Coupling. No. 2,329,000. Granted on September 7, 1943 to Ernest Wayne Rembert, Plainfield, N. J. Assignor to Johns-Manville Corporation, New York. Application July 17, 1940. Serial No. 345,873.

The method of making a pipe assembly comprising locating gaskets in spaced relationship on an assembly member of smaller diameter than the pipe, inserting the member within a coupling sleeve with the gaskets confined between the member and sleeve, drawing the sleeve from the member over an end of a pipe section with the gaskets rolling on to said section, placing a second pipe section in axial alinement with said first section and shifting said sleeve to span the joint between said sections.

Apparatus for Curing Asbestos-Cement Pipes. No. 2,329,184. Granted on September 14, 1943 to John Arthur Cann, Bickley, England. Assignor to Turner & Newall, Ltd., Spotland, Rochdale, a British company. Application May 23, 1941. Serial No. 394,909. In Great Britain May 27, 1940.

In an apparatus for use in treating asbestos-cement or like pipes in the form of coatings on mandrels, in combination a chamber, means in said chamber forming a track along which mandrels roll, conveyor means arranged to engage mandrels and cause them to roll along said track means in said chamber

and means for maintaining humid the atmosphere in the chamber.

Gasket Material. No. 2,330,106. Granted on September 21, 1943, to Wilburn F. Bernstein, Brookfield and Thomas F. Mika, Chicago, Ill. Assignors to Victor Mfg. & Gasket Company. Application March 14, 1941. Serial No. 383,396.

A sheet of compressible gasket material of uniform composition and density throughout, comprising asbestos fibre and a binder giving the fibre flow-characteristics and including petroleum oil, carbon black and bentonite dispersed thruout the mass of fibre with the oil and carbon black providing a thin coating around the individual fibre and a coating for the sheet composed of a varnish comprising a phenol-aldehyde-China-wood-oil-resin and graphite.

Magnesium Basic Carbonate. No. 2,330,836. Granted on October 5, 1943 to Lewis B. Miller, Ambler, Pa., assignor to Keasbey & Mattison Company. Application March 8, 1940. Serial No. 322,975.

A precipitated magnesium basic carbonate comprising a majority of particles of roughly spherical or oblate spheroid type, ranging in average diameter by gradation from relatively few microns for the smaller particles to between 50 to 80 microns for the larger ones, such particles being composed of isotropic noncrystalline matrices containing minute crystals less than 20% of which are separately discernible at 100 magnifications.

. . . —

PUBLICATIONS AVAILABLE

The Asbestos Factbook—Much information about asbestos, in compact form—10c per copy.

Canadian Chrysotile Asbestos Classification (reprint)—25c per copy, or 15c ea. in quantities of 10 or more.

Twelve Estimating Tables with Chart. Convenient in figuring flange, fitting and other areas—$1.00 per set.

Manual of Unit Prices (for figuring pipe covering and blocks)—30c per copy postpaid, or 25c plus postage in quantities of ten or more.

Asbestos: The Magic Mineral, by Lilian Holmes Strack. Especially interesting to school children—$1.00 per copy.

Order any of the above from "ASBESTOS," 17th Fl., Inquirer Bldg., Philadelphia, 30, Pa.

. . . —

Our December number will contain a very interesting history of The Cape Asbestos Company, which celebrates the 50th Anniversary of its founding in December.

. . . —

Be sure to send us your zone number when renewing subscriptions, else there may be delay in delivery of your copy.

THIS and THAT

The 25th edition of Automobile Facts and Figures has recently been issued by the Automobile Manufacturers Association, New Center Building, Detroit. This 68 page booklet contains much information as to registration of automobiles in 1943, motor vehicle taxes, gasoline consumption, raw materials used in cars, and other tabulations in connection with motor vehicles, and also tabulations and graphs concerning production of war equipment by the Automotive Industry, and a list of the products made for war.

. . . —

General Electric Company's net sales billed for the first nine months of 1943 amounted to $980,226,836, compared with $654,882,607. These figures represent shipments, the larger portion of which are war products.

Total earnings for the first nine months of this year were $345,000,000, an increase of 27% over last year.

. . . —

About 700 essential civilian products are being programmed for manufacture in 1944, most of which will be made by small manufacturers with open capacity which have manufactured these items in the past. Anyone interested should communicate with the nearest district office of the Smaller War Plants Corporation promptly.

. . . —

If any of our readers knows of a source of supply for mountain leather or mountain cork please communicate with us.

. . . —

Good advertising for asbestos is the article "Firemen of the High Seas", by Harry T. Paxton, which appeared in the October 9th number of the Saturday Evening Post, and is illustrated by a colored picture of the rescue of a man from fire, the rescuer being clad in an asbestos suit.

. . . —

This is no time to let down—in war production, in conservation or in the buying of war bonds and stamps. We must back up the boys on the fighting fronts in every possible way.

Form 3526.—Ed. 1937

STATEMENT OF THE OWNERSHIP, MANAGEMENT, CIRCULATION, ETC., REQUIRED BY THE ACTS OF CONGRESS OF AUGUST 24, 1912, AND MARCH 3, 1933

Of "ASBESTOS" (Insert title of publication.) published Monthly (State frequency of issue.)

at Philadelphia, Pa. (30) (Name of post office and State where publication is entered.) for October 1943

STATE OF Pennsylvania
COUNTY OF Philadelphia

Before me, a Notary Public in and for the State and county aforesaid, personally appeared A. S. Rossiter, who, having been duly sworn according to law, deposes and says that he is the Editor (State whether editor, publisher, business manager, or owner.) of the magazine "ASBESTOS" (Insert title of publication.) and that the following is, to the best of his knowledge and belief, a true statement of the ownership, management (and if a daily paper, the circulation), etc., of the aforesaid publication for the date shown in the above caption, required by the Act of August 24, 1912, as amended by the Act of March 3, 1933, embodied in section 537, Postal Laws and Regulations, printed on the reverse of this form, to wit:

1. That the names and addresses of the publisher, editor, managing editor, and business managers are:

	Name of—	Post office address—
Publisher	Secretarial Service	17th Fl., Inquirer Bldg.,
Editor	A. S. Rossiter	Blue Bell, Montg. Co., Pa.
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A. S. Rossiter
(Signature of editor, publisher, business manager, or owner)

Sworn to and subscribed before me this 22nd day of September, 1943

[SEAL.]

Verna D. Wyatt
(My commission expires Jan. 27 1945)

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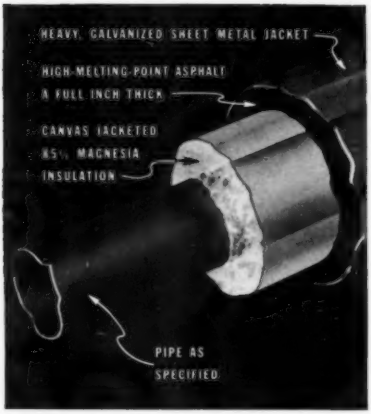

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